

ZS4-SF1-R Screw Clamp Terminal Block

Fuse



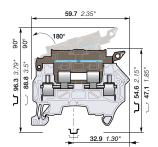


4 mm² 10 AWG

8 mm 0.315 in Spacing

Features and Benefits





- Protect your circuit with 5x25 and 5x20 fuse terminal blocks (fuse not supplied with the terminal blocks),
- Compliant with IEC 60947-7-3 standard,
- Quickly identify the defective circuit thanks to the blown fuse indicator (with leakage current < 0.5 mA).

3D CAD outline drawings available on "Control Product 3D" portal

Ordering Details	Туре	Order Code	EAN Code	Pack ^(ing)	Weight g (1 pce)
Grey-Dark Grey	ZS4-SF1-R1	1SNK 508 412 R0000	3472595084128	50	13.30
Grey-Dark Grey	ZS4-SF1-R3	1SNK 508 414 R0000	3472599097247	50	13.30

arations a	and Certificates	Document Part Number			
C€ ce	UE Directive	1SND 225 098 C1002			
CB	Third Party Certificate	1SND 161 030 A0200			
RoHS RoHS	RoHS	1SND 230 491 F0203			

General Information

The following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance.

Protection		IP 20	NEMA 1				
Rail	ъ	DIN3-TH35	5				
Wire stripping length		11 mm	11 mm 0.433 in				
		Screw clarr	Screw clamp		Screw rail contact (Maximum value)		
		Flat screw	driver				
Operating tool	\oslash	3.5 mm	0.138 in				
Torque		0.6 Nm ± 0.1 Nm	5.31 lb.in ± 0.885 lb.in	± 0.1 Nm	± 0.885 lb.in		
Mechanical endurance of disconnect system							



Insulating material				Polyamide		
IRC				600 V		
Flammability			UL94	V0		
•			NF F 16 101	I2F2		
		Needle flame test IE	C 60695-11-5	Compliant		
Connecting capacity per cla	amn					
1 Rigid conductor	amp		0.2-4 mm ²		24	!-10 AWG
1 Flexible conductor without ferr			0.22-4 mm ²			1-10 AWG
1 Flexible conductor with ferrule			0.22-4 mm ²			!-12 AWG
T T TEXTED COTTAGES WITH TOTAGE						7271110
Ferrule maximum outer diameter	ſ	Ø Max.	5.5 mm	0.216 in		
Multi Connecting capacity p	per clamp					
2 Rigid conductors	•		0.2-1 mm ²		24	!-18 AWG
2 Flexible conductors without fer	rrule		0.22-1 mm ²		24	!-18 AWG
2 Flexible conductors with twin f	errule		0.22-1.5 mm	2	24	!-16 AWG
Don't mix solid and flexible con	nductors in th	e same clamp				
Don't mix solid or flexible cond		-	clamp			
The "Connecting capacity with fe	===== errule " data i	s guaranteed with ABB	crimping tool F	PS-3		
Cross section						
Rated cross section			4 mm²		10	AWG
Maximum Cross section		Manufacturer data	4 mm ²	Manufacturer data	_	AWG
				iviariulacturer data	70	AVVO
	33 / 3 mm /	0.118 in / IEC 60947-	7-1			
Electrical characteristics						
Current						
Rated current				IEC 60947-7-1	6.3 A	
	Field and	factory wiring Cat.2		UL 1059	6.3 A	
	Factory w	dula a Cat 1				
		riring Cat. i		UL 1059	6.3 A	
		ring Cat. i		UL 1059 CSA-C-22.2 n° 158	6.3 A 6.3 A	
Rated short-time withstand curre	ent 1 s (Icw)	Airing Cat. I				
	ent 1 s (lcw) 0.5 s	viring Cat. I			6.3 A	
	, ,	viring Cat. I		CSA-C-22.2 n° 158	6.3 A	
	0.5 s	viring Cat. I		CSA-C-22.2 n° 158 Manufacturer data	6.3 A	
	0.5 s 5 s	viring Gat. I		CSA-C-22.2 n° 158 Manufacturer data Manufacturer data	6.3 A	
	0.5 s 5 s 10 s	viring Cat. I		CSA-C-22.2 n° 158 Manufacturer data Manufacturer data Manufacturer data	6.3 A	
Rated short-time withstand curre Short-time withstand current Rated short circuit withstand	0.5 s 5 s 10 s 30 s	viring Cat. I		Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data	6.3 A	
Short-time withstand current Rated short circuit withstand	0.5 s 5 s 10 s 30 s 1 mn			CSA-C-22.2 n° 158 Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data	6.3 A	4 mm
Short-time withstand current Rated short circuit withstand Max. current (45° temperature in	0.5 s 5 s 10 s 30 s 1 mn			Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data CSA-C-22.2 n° 158	6.3 A 480 A	4 mm
Short-time withstand current Rated short circuit withstand Max. current (45° temperature in Maximum short circuit current (1	0.5 s 5 s 10 s 30 s 1 mn acrease) / Max s)	c. cross section (mm²)	nt	Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data CSA-C-22.2 n° 158 Manufacturer data	6.3 A 480 A 6.3 A 480 A	4 mm
Short-time withstand current Rated short circuit withstand Max. current (45° temperature in Maximum short circuit current (1) Short Circuit Current Rating	0.5 s 5 s 10 s 30 s 1 mn acrease) / Max s)	c. cross section (mm²)	nt	Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data CSA-C-22.2 n° 158 Manufacturer data	6.3 A 480 A 6.3 A 480 A	
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Short-time withstand current Rated short circuit withstand Max. current (45° temperature in Maximum short circuit current (1) Short Circuit Current Rating	0.5 s 5 s 10 s 30 s 1 mn acrease) / Max s) g (SCCR) SA	c. cross section (mm²) A UL 1059 suppleme	nt	Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data CSA-C-22.2 n° 158 Manufacturer data	6.3 A 480 A 6.3 A 480 A	
Short-time withstand current Rated short circuit withstand Max. current (45° temperature in Maximum short circuit current (1) Short Circuit Current Rating	0.5 s 5 s 10 s 30 s 1 mn acrease) / Max s) g (SCCR) SA	A UL 1059 supplement voltage conductor wire range	nt	Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data CSA-C-22.2 n° 158 Manufacturer data	6.3 A 480 A 6.3 A 480 A	
Short-time withstand current	0.5 s 5 s 10 s 30 s 1 mn crease) / Max s) g (SCCR) SA Guitable of	A UL 1059 supplement voltage conductor wire rangeng	nt	Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data CSA-C-22.2 n° 158 Manufacturer data	6.3 A 480 A 6.3 A 480 A	
Short-time withstand current Rated short circuit withstand Max. current (45° temperature in Maximum short circuit current (1 Short Circuit Current Rating	0.5 s 5 s 10 s 30 s 1 mn acrease) / Max s) g (SCCR) SA s: Maximum Suitable of Fuse ratin Fuse des	A UL 1059 supplement voltage conductor wire rangeng	nt	Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data CSA-C-22.2 n° 158 Manufacturer data	6.3 A 480 A 6.3 A 480 A	
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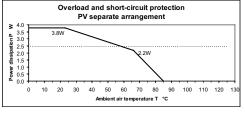


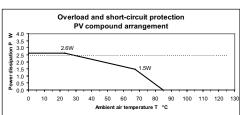
Voltage		
Rated voltage	IEC 60947-1	250 V
Rated voltage	UL 1059	300 V
Use Group	UL 1059	D
Rated voltage	300 V	
Rated voltage Ex e	IEC/EN 60079-11	
Rated impulse withstand voltage		8000 V
Dielectric test voltage		2200 V
Pollution degree	IEC 60947-1	3
Overvoltage category	IEC 60947-1	III
Dissipated power Maximum dissipated power at rated current		
Rated power dissipation at an ambient temper	rature of 23 °C - IEC 60947-7-3	
Overload and short-circuit protection Separate arrangement		2.5 W
Exclusive short-circuit protection Separate arrangement	હિડિકિડિડિડ 1 fuse and 4 feed-through blocks	4 W
Overload and short-circuit protection Compound arrangement	1.6 W	
Exclusive short-circuit protection	[\$ \$ \$ \$ \$]	4 W

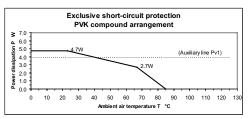
Temperature range				
Ambient temperature min/max	Storage		-55 +110 °C	-67 +230 F
	Installing		-5 +40 °C	-23 +104 F
	Service	IEC 60068-2-1	-55 +110 °C	-67 +230 F
		EN 60079-7		

Current Derating curve for continuous service temperature

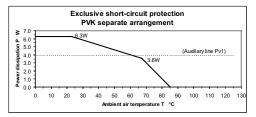
Compound arrangement







5 fuse blocks





Environmental Characte	ristics			
Additional climatic tests				
Dry heat		IEC 60068-2-2	Complia	nt
	Conditions	Temperature	+100 °C	
		Duration of test	96 h	
Cyclic damp heat		IEC 60068-2-30	Complia	nt
	Conditions	Temperature	+55 °C	
		Number of cycles	2	
Cold		IEC 60068-2-1	Complia	nt
	Conditions	Temperature	-40 °C	
		Duration of test	96 h	
Z /ABDM climatic sequence		IEC 60068-2-61	Complia	nt
	Conditions	Dry heat Duration of test / Temperature	16 h	+85 °C
		Cyclic damp heat Number of cycles / Temperature	1	+55 °C
		Cold Duration of test / Temperature	2 h	-25 °C
Corrosion				
Salt mist		IEC 60068-2-11	Complia	nt
	Conditions	Duration of test	96 h	
		Concentration	5 %	
SO2		Temperature Duration of test IEC 60068-2-30 Temperature Number of cycles IEC 60068-2-1 Temperature Duration of test IEC 60068-2-1 Temperature Duration of test IEC 60068-2-61 Dry heat Duration of test / Temperature Cyclic damp heat Number of cycles / Temperature Cold Duration of test / Temperature Cold Duration of test / Temperature Cold Duration of test / Temperature Concentration ISO 6988 Duration of test Concentration IEC 60068-2-42 Duration of test IEC 60068-2-43 Duration of test IEC 60068-2-60 Number of the test method Duration of test IEC 60068-2-60 Number of cycles Amplitude Acceleration IEC 60068-2-64 Duration of test Frequency range Number of cycles Amplitude Acceleration IEC 60068-2-64 Duration of test Frequency range Acceleration Climatic cycles Step 1 -> Temperature / Duration of test Step 2 -> Temperature / Duration of test	Complia	nt
	Conditions	Duration of test	48 h	
		Concentration	0.2 dm ³	
Sulfur dioxide		IEC 60068-2-42		
	Conditions	Duration of test		
Hydrogen sulfur		IEC 60068-2-43		
, ,	Conditions	Duration of test		
Flowing mixed gas corrosion	test	IEC 60068-2-60		
	Conditions	Number of the test method		
		Duration of test		
Vibrations				
Vibrations		IEC 60068-2-6	Complia	nt
	Conditions	Frequency range	10-55 Hz	
		Number of cycles	10	
		Amplitude		
		Acceleration	10 m/s ²	
Ramdom vibrations and clim	atic sequence	IEC 60068-2-64		
	Conditions	Duration of test		
		Frequency range		
		Acceleration		
		Climatic cycles		
		Step 1 -> Temperature / Duration of test		
		Temperature variation per minute		



Z	ZS4-SF1-R Terminal Block Accessories Compatibility								
	Description	Туре	Order Code	Pack ^(ing)	Weight	Technical Datasheet			
				pieces	g (1 pce)	PDF			
1	End Stops	ВАМ3	1SNK 900 001 R0000	50	13.80	1SNK 160 026 D0201			
2	End Sections	ES4-SF	1SNK 508 960 R0000	20	1.82	1SNK 160 019 D0201			
3	Protecting Covers	CO	1SNK 900 604 R0000	1	300.00	1SNK 160 020 D0201			
4	Protecting Cover Kits	KCO	1SNK 900 624 R0000	1	47,8	1SNK 160 028 D0201			
5	Tools	PS-3	1SNK 900 650 R0000	1	380.00	1SNK 160 024 D0201			
6	Terminal Block Markers	MC812	1SNK 160 000 R0000	22	0.09	1SNK 160 009 D0201			
		UMH	1SNK 900 611 R0000	10	0.20	1SNK 160 001 D0201			
		PROCAP8	1SNK 900 613 R0000	20	1.00	1SNK 160 013 D0201			
		SAT8	1SNK 900 616 R0000	5	6.00	1SNK 160 013 D0201			

